

SECTION 01010

LAYOUT OF WORK

1.01 GENERAL PROVISIONS1

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PART 1 GENERAL

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- A. The Owner has retained **(TO BE FILLED IN)**, licensed land surveyor, to provide **(IDENTIFY SURVEY CONTROLS)** throughout the project site **(VERIFY)**. For the purposes of this specification, this shall be the limit of Owner provided survey control to the Contractor.
- B. The Contractor shall employ a licensed land surveyor in the State of Maine to lay out the work from the established reference points and bench marks, and coordinate system indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The licensed land surveyor shall certify in writing that the layout was performed under his/her direct supervision and is correct and meets the requirements of the contract documents. A copy of the certificate shall be furnished to the Engineer and the City of Saco.

The Contractor shall furnish, at Contractor's own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Owner. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Owner until authorized to remove them. If such marks are destroyed by the Contractor or through Contractor's negligence before their removal is authorized, the Owner may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

- C. The layout shall establish the locations of silt fence, areas of trees to be protected, and clearing limits for review and approval of the Owner prior to clearing. The centerline of drives or roadways shall be laid out and marked with "PKs" or hubs at 50' o.c. prior to construction.
- D. Establish and plainly mark center lines for the site work and such other lines and grades that are reasonably necessary to properly assure that location, orientation, and elevations established for each structure, roadway, utilities, parking lots and other portions of the work, are in accordance with lines and elevations shown on contract drawings.
- E. Following completion of general mass excavation and before any other permanent work is performed, establish and plainly mark (through use of appropriate batter boards or other means) sufficient additional survey control points or system of points as may be necessary to assure proper alignment, orientation, and grade of all major features of work.
 - 1. Such additional survey control points or system of points thus established shall be checked and certified by a registered land surveyor or registered civil engineer. Furnish such certification to the Owner before any work is placed.
 - 2. A detailed check of all coordinates, resultant pipe lengths, backslopes, and appurtenant locations shall be made by the registered land surveyor or civil engineer and provided to the Owner prior to starting utility lines.
- F. During progress of work the Contractor shall have line, grades, and plumbness of all major work checked and certified by a registered land surveyor or registered civil engineer as meeting requirements of contract drawings. Furnish such certification to the Owner before any major items are placed. In addition, Contractor shall furnish to the Owner certificates from a registered land surveyor or registered civil engineer that the following work is complete in every respect as required by contract drawings and permits.
 - 1. Elevations of all pavement areas and building pads.

2. Lines and elevations of sewers, storm drains, and utility systems.
 3. Lines of elevations of all swales and drainage areas.
 4. Lines of elevations of parking area.
 5. Other infrastructure.
- G. The location of catch basins and manholes shall be accurately located by a registered land surveyor. Catch basins and manholes shall be located from the construction baseline and offset established on the contract drawings or by the Engineer's instruction.
- H. Whenever approved changes from contract drawings are made in line or grading requiring certificates, record such changes on a reproducible drawing bearing the registered land surveyor or registered civil engineer seal, and forward these drawings upon completion of work to the Owner. A copy of these documents shall be provided to the City of Saco upon request.
- I. Changes in location, additions and appurtenant items such as, but not limited to, manholes, inlets, pipe lines and conduits shall be shown in the same manner as on contract drawings (by coordinates or dimensions from buildings); however, if no such locations are shown on contract drawings, changes in locations of items shall be shown by a sufficient number of right-angled dimensions from the nearest building or permanent reference point.
- J. Contractor is responsible for all costs associated with layout of work, and any costs associated with correcting non-conforming work or with restoring the landscape to its original condition.

---END OF SECTION 01010---